



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <b>(51) International Patent Classification n<sup>o</sup> :</b><br><b>A61K 31/22, 31/225</b>   | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 99/29317</b><br><b>(43) International Publication Date:</b> 17 June 1999 (17.06.99)  |
| <b>(21) International Application Number:</b> PCT/US98/26469<br><b>(22) International Filing Date:</b> 11 December 1998 (11.12.98)<br><b>(30) Priority Data:</b><br>60/069,567 12 December 1997 (12.12.97) US<br><b>(71) Applicants (for all designated States except US):</b> PURDUE RESEARCH FOUNDATION [US/US]; Office of Technology Transfer, 1063 Hovde Hall, West Lafayette, IN 47907 (US). THE PENN STATE RESEARCH FOUNDATION [US/US]; 304 Old Main, University Park, PA 16802 (US).<br><b>(72) Inventors; and</b><br><b>(75) Inventors/Applicants (for US only):</b> <u>VANDEN HEUVEL</u> , John, P. [US/US]; 101 James Hill Road, Port Matilda, PA 16807 (US). <u>BELURY</u> , Martha, A. [US/US]; 181 Ivy Hill Drive, West Lafayette, IN 47906 (US). <u>PECK</u> , Louise, W. [US/US]; 3200 W. 450 North, West Lafayette, IN 47906 (US).<br><b>(74) Agents:</b> GANDY, Kenneth, A. et al.; Woodard, Emhardt, Naughton, Moriarty & McNett, Bank One Center/Tower, Suite 3700, 111 Monument Circle, Indianapolis, IN 46204 (US). |           | <b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).<br><b>Published</b><br><i>With international search report.</i><br><i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> |
| <b>(54) Title:</b> METHODS AND COMPOSITIONS FOR TREATING DIABETES  |           |  |
| <b>(57) Abstract</b><br><p>Methods of treating diabetes in an animal and food compositions useful for treating diabetes are described. In one aspect of the invention, the method includes treating the animal with a therapeutically effective amount of CLA including 9,11-octadecadienoic acid and 10,12-octadecadienoic acid, isomers thereof, esters thereof, salts thereof or mixtures thereof. In another aspect of the invention, a food composition comprising a food product having a therapeutically effective amount of a purified CLA isomer, including cis,cis-9,11-octadecadienoic acid, trans,cis-10,12-octadecadienoic acid or a mixture of purified cis,trans-9,11-octadecadienoic acid and trans,cis-9,11-octadecadienoic acid is described.</p>  |           |  |